

Fig. 1

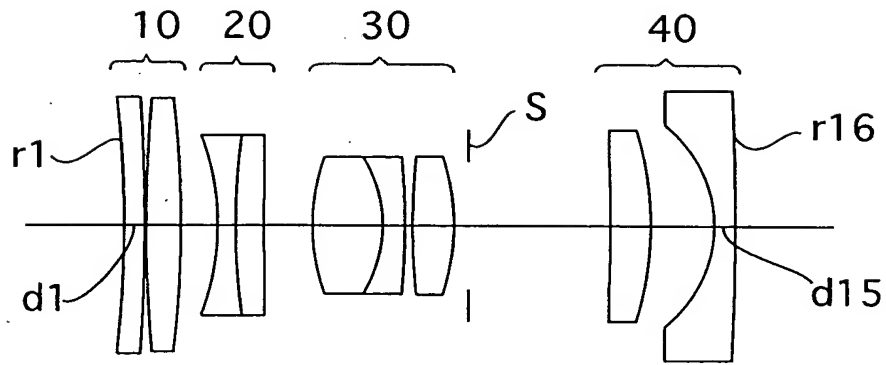


Fig. 2A

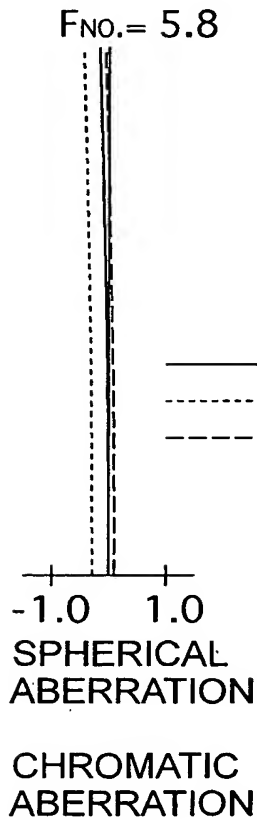


Fig. 2B

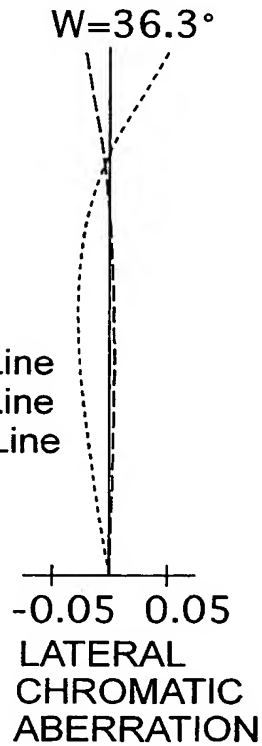


Fig. 2C

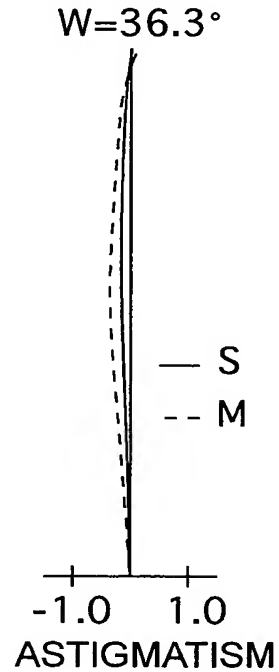


Fig. 2D

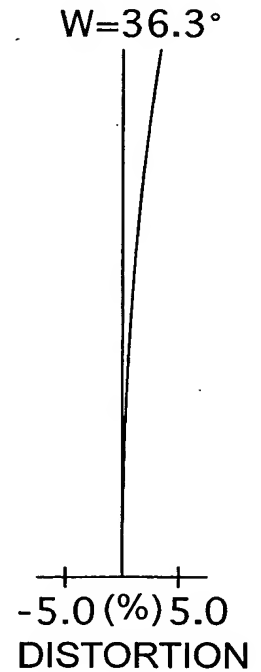
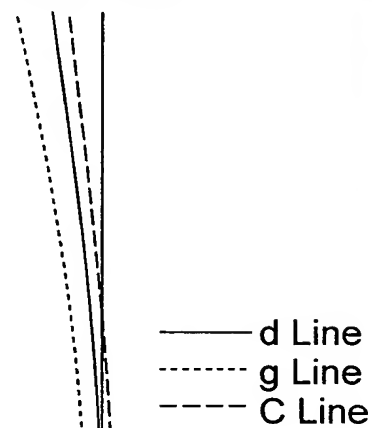


Fig. 3A

$F_{NO.} = 9.8$

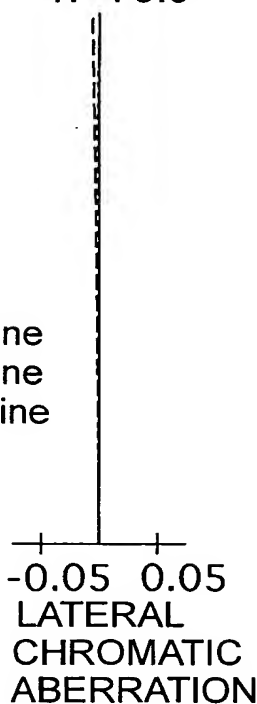


-1.0 1.0
 SPHERICAL
 ABERRATION

CHROMATIC
 ABERRATION

Fig. 3B

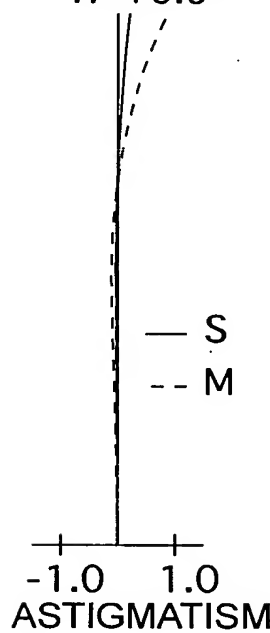
$W = 16.9^\circ$



-0.05 0.05
 LATERAL
 CHROMATIC
 ABERRATION

Fig. 3C

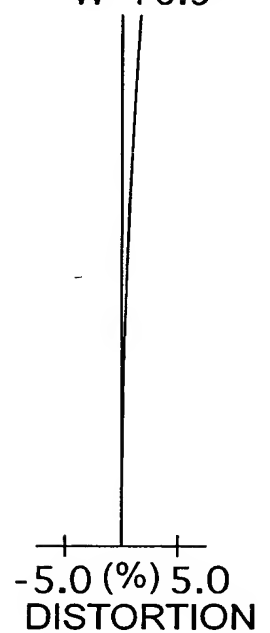
$W = 16.9^\circ$



-1.0 1.0
 ASTIGMATISM

Fig. 3D

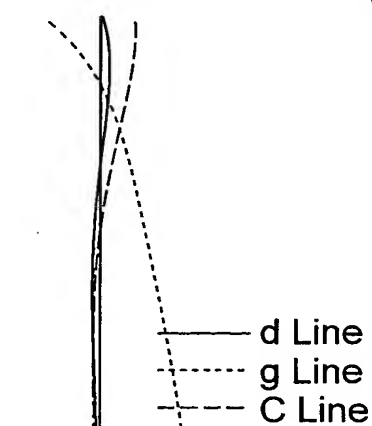
$W = 16.9^\circ$



-5.0 (%) 5.0
 DISTORTION

Fig. 4A

$F_{NO.} = 13.5$

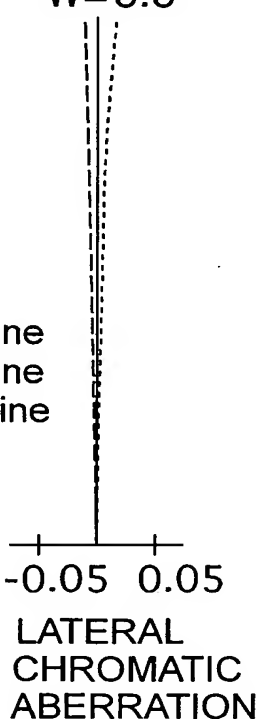


-1.0 1.0
 SPHERICAL
 ABERRATION

CHROMATIC
 ABERRATION

Fig. 4B

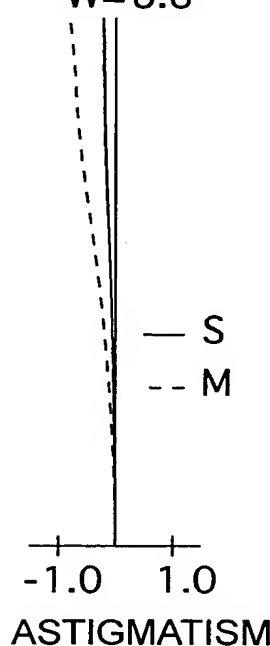
$W = 8.8^\circ$



-0.05 0.05
 LATERAL
 CHROMATIC
 ABERRATION

Fig. 4C

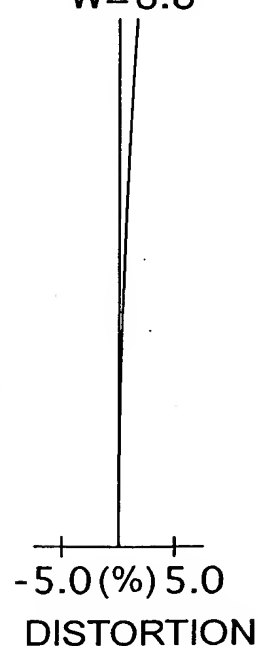
$W = 8.8^\circ$



-1.0 1.0
 ASTIGMATISM

Fig. 4D

$W = 8.8^\circ$



-5.0 (%) 5.0
 DISTORTION

Fig. 5

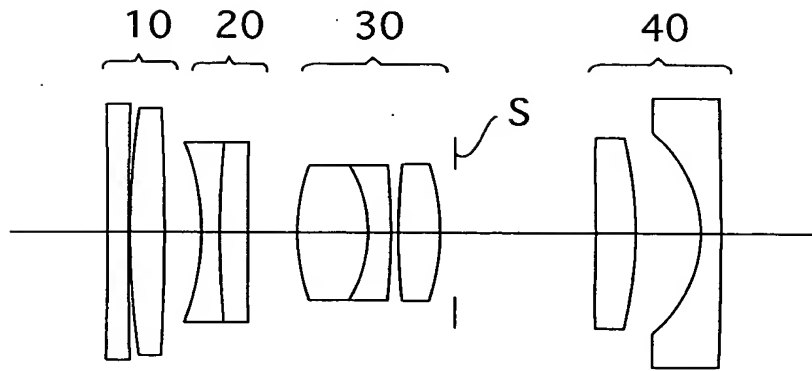


Fig. 6A

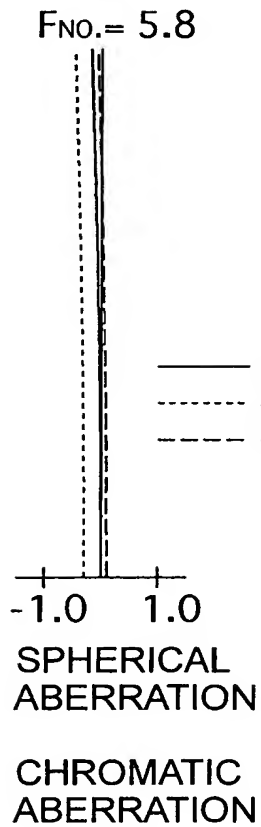


Fig. 6B

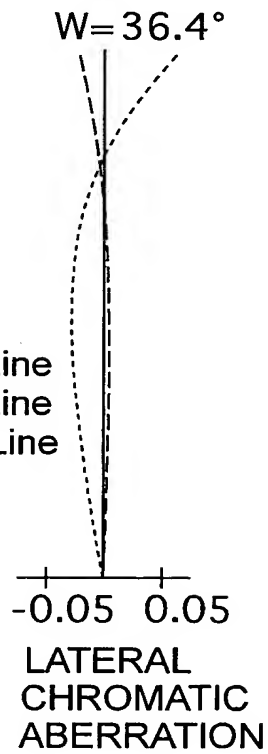


Fig. 6C

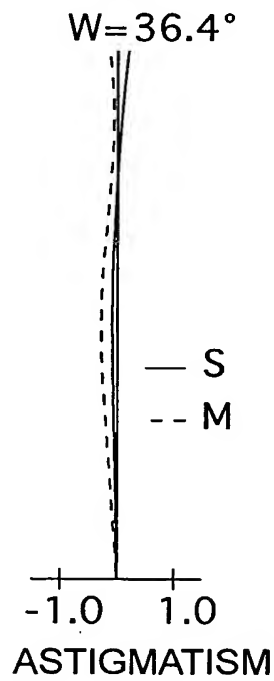


Fig. 6D

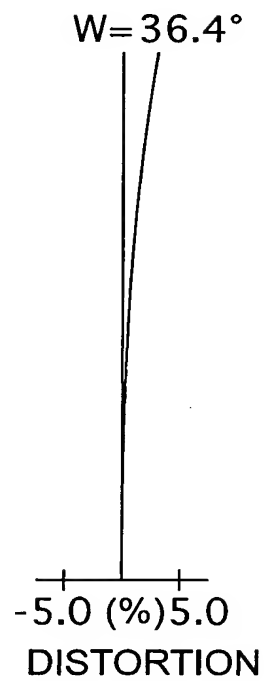
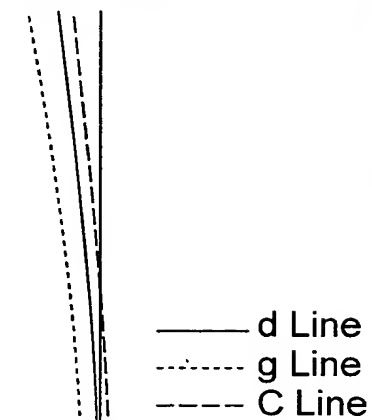


Fig. 7A

$F_{NO.} = 9.8$

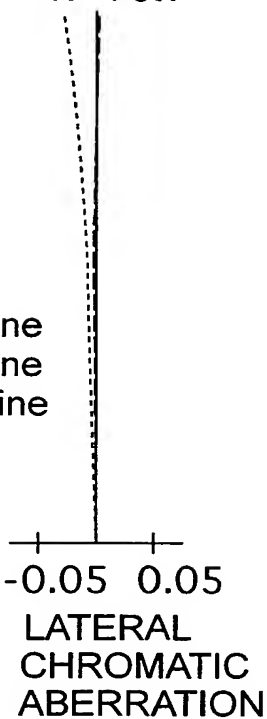


-1.0 1.0
SPHERICAL
ABERRATION

CHROMATIC
ABERRATION

Fig. 7B

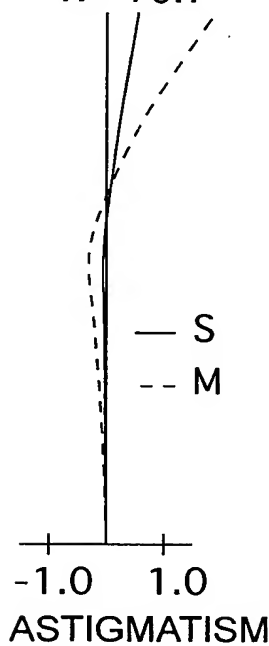
$W = 16.7^\circ$



-0.05 0.05
LATERAL
CHROMATIC
ABERRATION

Fig. 7C

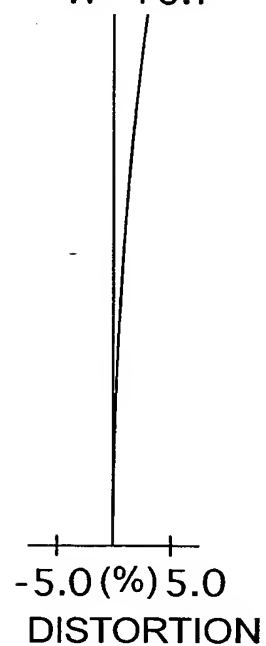
$W = 16.7^\circ$



-1.0 1.0
ASTIGMATISM

Fig. 7D

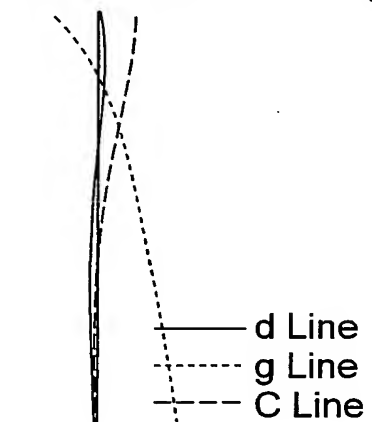
$W = 16.7^\circ$



-5.0(%) 5.0
DISTORTION

Fig. 8A

$F_{NO.} = 13.5$

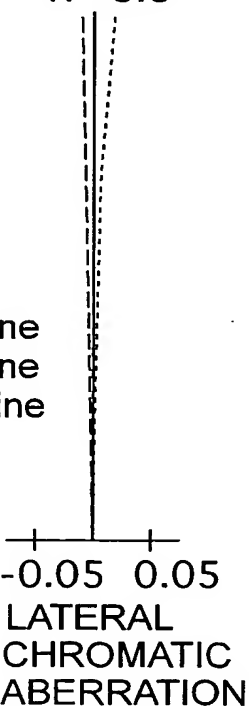


-1.0 1.0
SPHERICAL
ABERRATION

CHROMATIC
ABERRATION

Fig. 8B

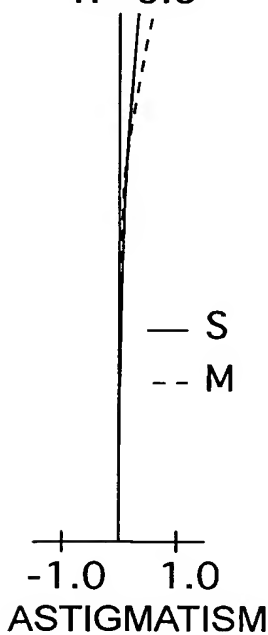
$W = 8.8^\circ$



-0.05 0.05
LATERAL
CHROMATIC
ABERRATION

Fig. 8C

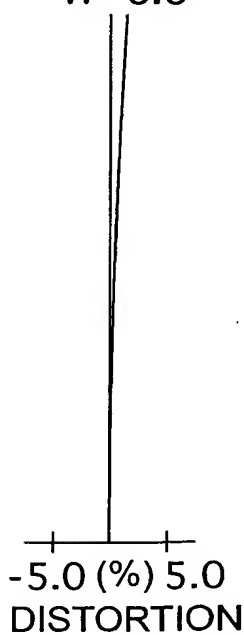
$W = 8.8^\circ$



-1.0 1.0
ASTIGMATISM

Fig. 8D

$W = 8.8^\circ$



-5.0(%) 5.0
DISTORTION

Fig. 9

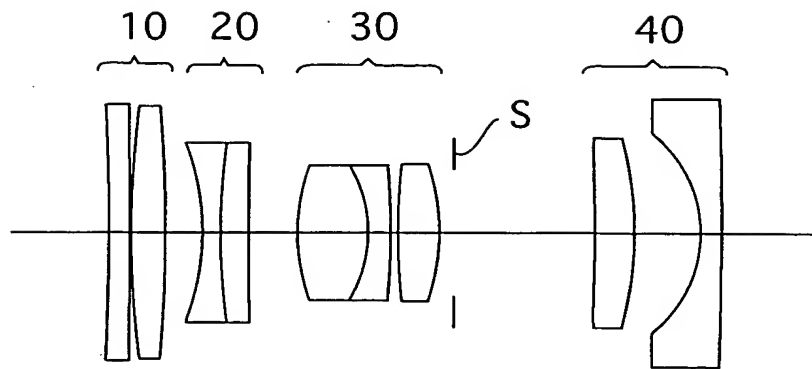


Fig. 10A

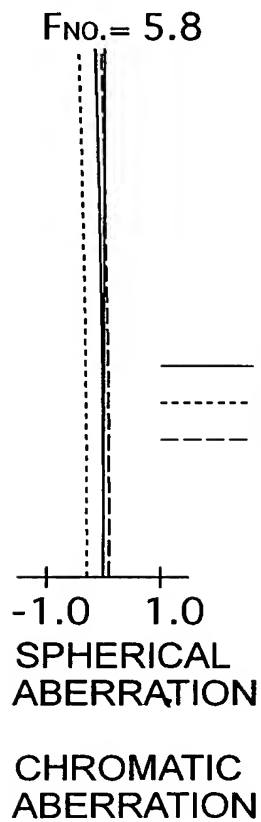


Fig. 10B

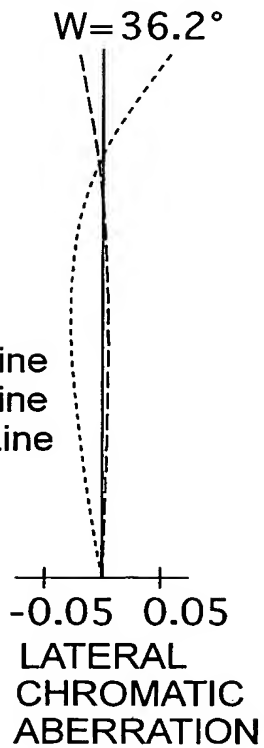


Fig. 10C

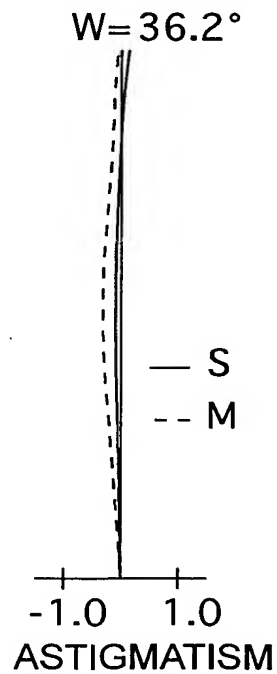


Fig. 10D

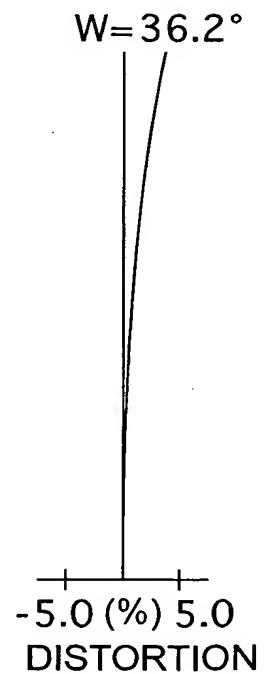
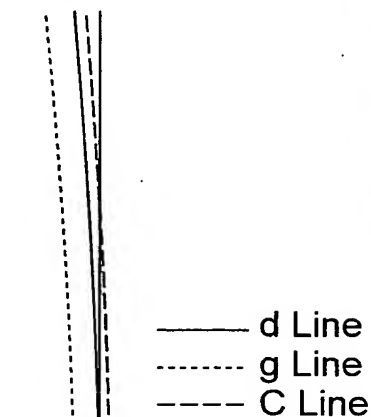


Fig. 11A

$F_{NO.} = 9.9$



-1.0 1.0
SPHERICAL
ABERRATION

CHROMATIC
ABERRATION

Fig. 11B

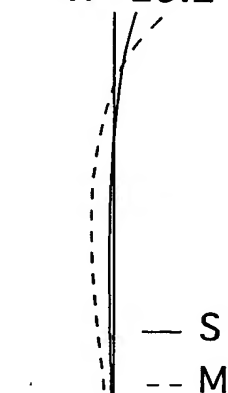
$W = 23.2^\circ$



-0.05 0.05
LATERAL
CHROMATIC
ABERRATION

Fig. 11C

$W = 23.2^\circ$



-1.0 1.0
ASTIGMATISM

Fig. 11D

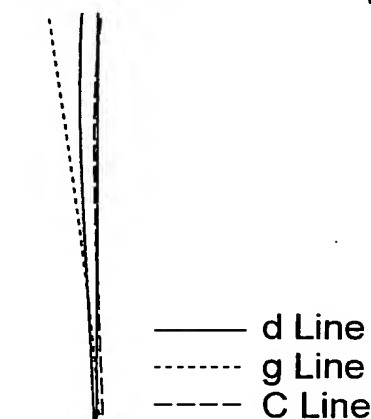
$W = 23.2^\circ$



-5.0 (%) 5.0
DISTORTION

Fig. 12A

$F_{NO.} = 9.8$

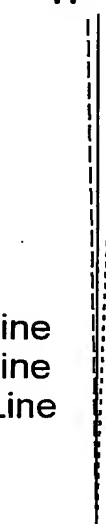


-1.0 1.0
SPHERICAL
ABERRATION

CHROMATIC
ABERRATION

Fig. 12B

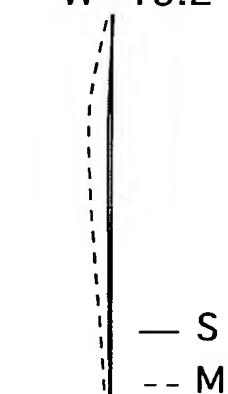
$W = 13.2^\circ$



-0.05 0.05
LATERAL
CHROMATIC
ABERRATION

Fig. 12C

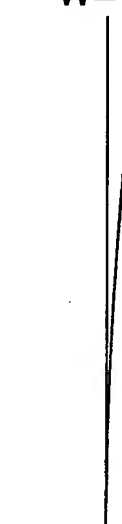
$W = 13.2^\circ$



-1.0 1.0
ASTIGMATISM

Fig. 12D

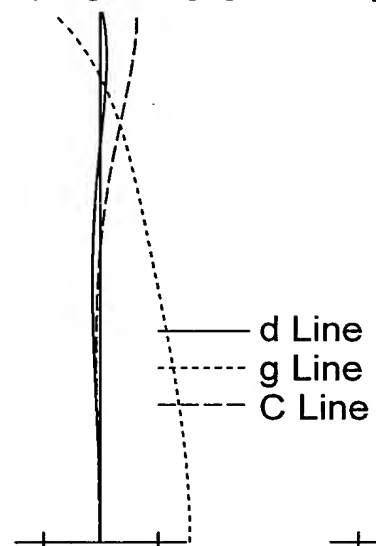
$W = 13.2^\circ$



-5.0 (%) 5.0
DISTORTION

Fig. 13A

FNO.= 13.5

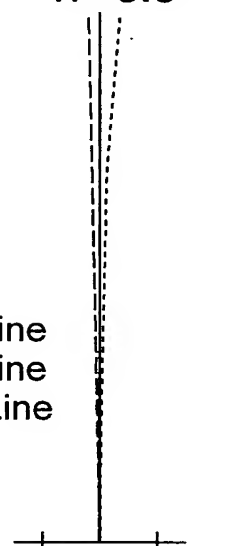


SPHERICAL
ABERRATION

CHROMATIC
ABERRATION

Fig. 13B

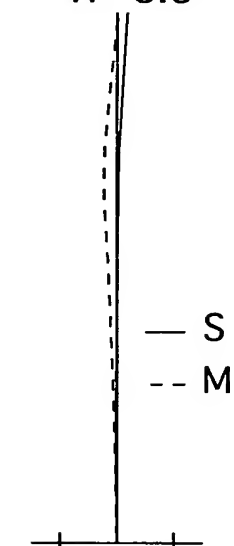
W=8.8°



LATERAL
CHROMATIC
ABERRATION

Fig. 13C

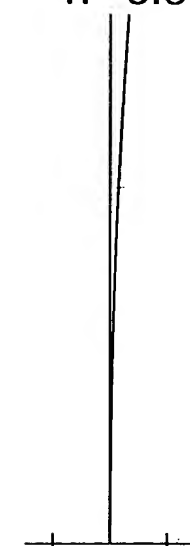
W=8.8°



ASTIGMATISM

Fig. 13D

W=8.8°



DISTORTION

Fig. 14

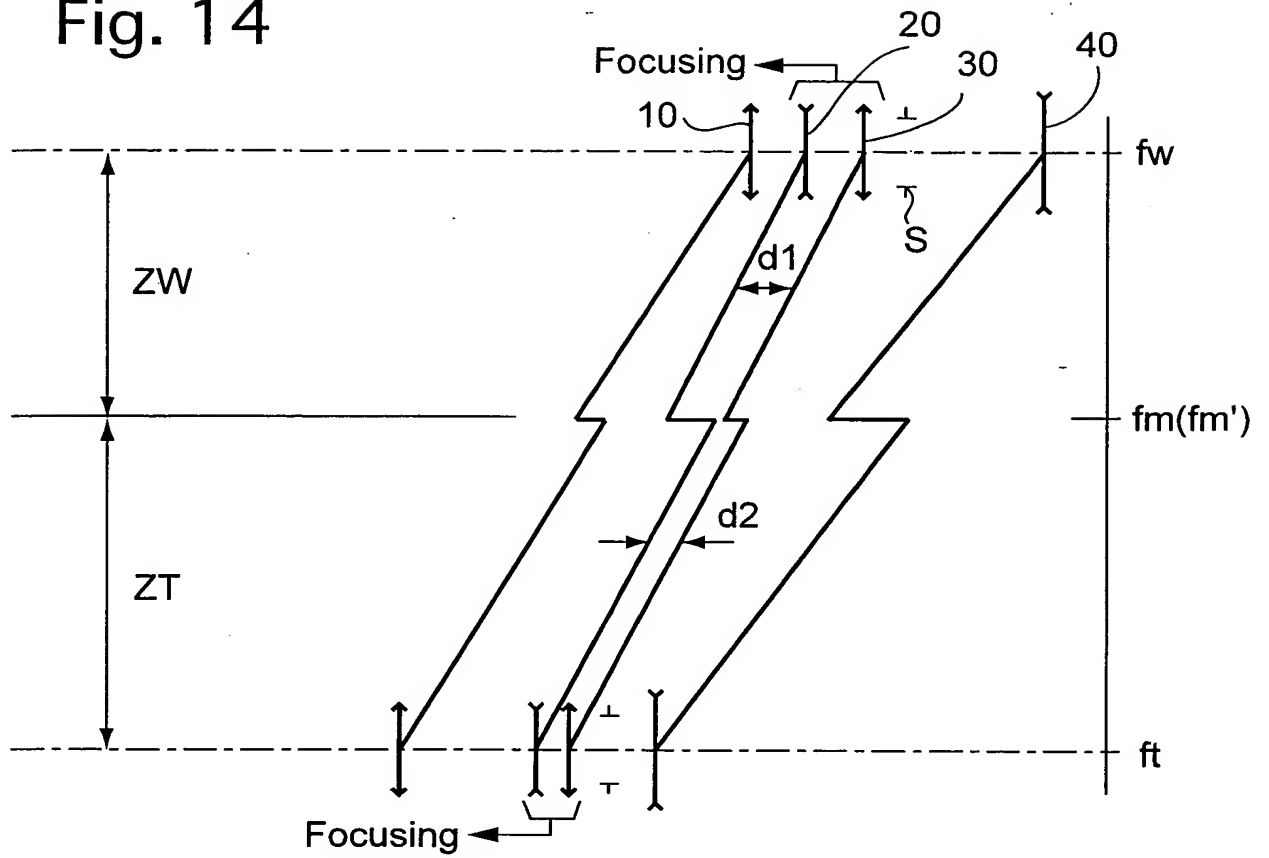


Fig. 15

